

Date: December 15, 2004

Amendment to the Patent application number **10/711,333** "Drilling Cutting Analyzer System and methods of applications."

What is claimed is:

Claim 1 is an apparatus for measuring the natural gamma radiation in discrete media of drilling cuttings consists of:

Claim 2 is the means of obtaining signal that is discriminating the natural gamma radiation of different formations obtained at the surface from unconsolidated material and drilling cuttings.

Claim 3 is the apparatus for measuring the absorption properties of gamma radiation in discrete media of drilling cuttings consist of:

Claim 4 two sensors. First is the gamma ray 15 and beta ray 16 receivers attached together on one side.

Claim 5 is the apparatus for measuring the Induction Resistivity properties of formation in discrete media of drilling cuttings.

Claim 6 is the apparatus for measuring the Sonic velocities and penetration properties of formation in discrete media of drilling cuttings.

Claim 7 is the parameter to correlate the quantity of sample passing at this time through the auger. The relative deflections depending on quantity will be explained.

Claim 8 is the apparatus for Fluorescence brightness measurement by injection of dissolvent **55**.

Claim 9 is the process of constantly injecting small dose of dissolvent in to the cuttings flow.

Claim 10 is sensor 54, which measures the amplitude and frequency of light emission produced.

Total claims remained -10.

Regards,

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